

## ABSTRACT OF THE DISCLOSURE

To provide an image processing system enabling association of the coordinates of a sensed projected image in a sensing area with the coordinates of the spatial light modulator, a projector is formed of: an image projecting section which projects calibration images; a ratio information generating section which computes a ratio of image signal values or luminance values for each pixel in the sensing area obtained by sensing the calibration images, based on sensed information from a sensor which senses the calibration images, to generate ratio information; an edge point detecting section which searches the ratio information to detect corner points of a sensed projected image for each pixel having a ratio equal to or larger than a predetermined value; a pixel block image information generating section which converts sensed information of an area defined by the detected corner points into pixel block image information representing a ratio of image signal values or luminance values for each pixel block including one or more pixels.